

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

Claims 1-8 (Cancelled).

9. (New) A device for cancelling interference comprising:  
a likelihood calculation section that calculates a likelihood of correct reception for each of a plurality of symbols included in a reception signal;

a ranking decision section that makes a first decision of a first decided ranking of each of said symbols, based on respective calculated likelihoods by said likelihood calculation section;

a control section that controls an updating operation of said ranking decision section;

a demodulation section that demodulates a symbol having a highest position in the first decided ranking; and

a cancellation section that cancels the symbol demodulated by said demodulation section from the reception signal,

wherein after the first decision by said ranking decision section, said control section (i) makes said ranking decision section decide the first decided ranking as a new ranking of said symbols excluding the symbol canceled by said cancellation section, when the likelihood, calculated by said calculation

section, of the symbol canceled by the cancellation section is greater than a first threshold, and (ii) makes said ranking decision section provide an updated ranking of said symbols excluding the symbol canceled by said cancellation section, when the likelihood, calculated by said calculation section, of the symbol canceled by said cancellation section is equal to or lower than the first threshold.

10. (New) The device for cancelling interference according to claim 9, wherein said control section makes said ranking decision section decide one of said first ranking and said updated ranking as a new ranking of said symbols excluding the symbol canceled by said cancellation section, when the likelihood, calculated by said calculation section, of the symbol cancelled by said cancellation section is equal to or lower than a second threshold.

11. (New) A method for cancelling interference comprising the steps of:

(a) calculating a likelihood of correct reception for each of a plurality of symbols included in a reception signal;

(b) making a first decision of a first decided ranking of each of said symbols, based on respective calculated likelihoods calculated in step (a);

(c) demodulating a symbol having a highest position in the first decided ranking;

(d) canceling the symbol demodulated by step (c) from the reception signal;

(e) after the first decision by said ranking decision section, (i) deciding the first decided ranking as a new ranking of said symbols excluding the symbol canceled by said cancellation section, when the likelihood, calculated by step (a), of the symbol canceled by step (d) is greater than a first threshold, and (ii) providing an updated ranking of said symbols excluding the symbol canceled by step (d), when the likelihood, calculated by step (a), of the symbol canceled by step (d) is equal to or lower than the first threshold.